

**Notice of Allowability**

Application No.

10/668,501

Examiner

Geoffrey Mruk

Applicant(s)

SAKAIDA ET AL.

Art Unit

2853

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7 July 2005.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892)  | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)            |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),<br>Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment                    |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material          | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|   | 9. <input type="checkbox"/> Other _____.   |

## **DETAILED ACTION**

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kurt P. Goudy on 27 October 2005.

The application has been amended as follows:

Replace claim 1 as below.

-- 1. An inkjet head system having an inkjet head and a printed board connected to the inkjet head, wherein said inkjet head comprises:

a cavity plate formed with a plurality of ink pressure chambers arranged adjacent to each other;

a piezoelectric actuator placed on said cavity plate; and

a plurality of electrodes formed on said piezoelectric actuator at positions corresponding to respective ones of said plurality of ink pressure chambers, and said printed board comprises a plurality of electrode lands connected with

respective ones of said plurality of driving electrodes to supply driving signals thereto, said electrode lands and corresponding ones of said plurality of driving electrodes being attracted with each other with magnetic force acting to cause the connection between the respective electrode lands and driving electrodes. --

### **REASONS FOR ALLOWANCE**

The following is an examiner's statement of reasons for allowance:

The primary reasons for allowance for claims 1-7 is that applicant's claimed invention includes an inkjet head system having an inkjet head and a printed board connected to the inkjet head where the electrode lands and corresponding ones of the plurality of driving electrodes being attracted with each other with magnetic force acting to cause the connection between the respective electrode lands and driving electrodes. It is this limitation, expressed in the claimed combination not found, taught, or suggested in the prior art that makes these claims allowable over the prior art. Thus, the printed board can be easily detached from the inkjet head by pulling it from the inkjet head against the magnetic force.

The primary reasons for allowance for claims 8-14 is that applicant's claimed invention includes an inkjet head that has a terminal to be connected with an external power line to receive power for driving the inkjet head, the terminal being provided with magnetic material, the magnetic material allowing the terminal being detachably

connected with the external power line by means of a magnetic force. It is this limitation, expressed in the claimed combination not found, taught, or suggested in the prior art that makes these claims allowable over the prior art.

The primary reasons for allowance for claims 15-20 is that applicant's claimed invention includes a flexible printed board for use in combination with an inkjet head having terminals including magnetic material, the flexible printed board comprising an electrode land to be connected with the terminal of the inkjet head to provide power the and a conductive layer formed on the electrode land, the conductive layer including magnetic material, the conductive layer and the terminal of the inkjet head attract and establish connection with each other due to a magnetic force acting there between. It is this limitation, expressed in the claimed combination not found, taught, or suggested in the prior art that makes these claims allowable over the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Geoffrey Mruk whose telephone number is 571 272-2810. The examiner can normally be reached on 7am - 330pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on 571 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GSM  
10/27/2005

GM

  
10/27/05  
**MANISH S. SHAH**  
**PRIMARY EXAMINER**